INDEX

NO. 1 WINTER: PP. 3-128; NO. 2 SPRING: PP. 131-256 AND

MAP SUPPLEMENT: THE COEXISTENCE OF INDIGENOUS PEOPLES AND THE NATURAL ENVIRONMENT IN CENTRAL AMERICA NO. 3 SUMMER: PP. 259–284; NO. 4 AUTUMN: PP. 387–507

SPECIAL ISSUE: ENVIRONMENTAL CONSEQUENCES OF THE PERSIAN GULF WAR, 1990–1991
REMOTE-SENSING DATASETS OF KUWAIT AND ENVIRONS (DEC. 1991)

Author

Adams, Richard E.W. 412-427 Adams, Richard N. 501-504 Agelarakis, Anagnostis, 119 Arnold, Dorothea 264-275 Baker, Alan J.M. 338-351 Ballard, Robert D. 8-9 Bannanurag, Rachanie 180-195 Bernasconi, Maria Pia 22-51 Boak, Jeremy 383-384 Borner, Markus 64-75 Brantley, Susan L 328-337 Brooks, Robert R. 338-351 Brown, George E. Jr. 135–137 Brown, Thomas M. 119–120 Bruce, Richard C. 245-247 Caro, Tim 64-75 Carter, Joseph Coleman 446-459 Chapin, Mac 232-234, map supplement Chen, Zhongyuan 22-51 Chin, Nancy 374-377 Clark, Eugenie 276-295 Colvin, Jean G. 391 Conroy, Glenn C. 492-494 Coppock, D. Layne 296-307 Couclelis, Helen 124-125 Crespi, Muriel 381-383 Darsie, Richard F. Jr. 498-499 Davis, Hugh R. 22-51 Dawson, Stewart 166-179 Dawson, William 96-107 de Souza, Heitor Gurgulino 259-260 Fleagle, John G. 119-120 Flenley, John R. 166-179

Frankel, Norman 380-381 Frison, George C. 494-496 Gayer, Richard 133-135 Girot, Pascal O. 52-63 Goulet, Denis, 138-147 Grove, David 148-165 Heckman, Joanne 1-48 [special issue] Henneberg, Maciej 446-459 Henneberg, Renata 446-459 Herman, Bernard L. 262-263 Hern, Warren M. 125-126, 235-237 Higham, Charles 180-195 Hodge, Mary G. 428-445 Hudson, John C. 208-221 Jacobson, Harold K. 259-260 Kenzer, Martin S. 241–242 Kirch, Patrick V. 166–179 Köhler-Rollefson, Ilse 117-119 Konikow, Leonard F. 328-337 Lamont, Frances 166-179 Lara, Peter A. 503 Laurenson, M. Karen 64-75 Leaf, Alexander 374-377 Levy, Thomas E. 123, 248-250, 372-374 Licht, Louis 505 Luhr, James G. 121-122 Malaisse, François 338-351 Marcus, Joyce 392-411 Mathiu, Peter M. 96-107 McGarey, Gladys 374-377 Michel, James H. 504 Miller, Roberta Balstad 259-260 Moffett, Mark W. 220-231 Morales, José Carlos 503 Morrison, Kathleen D. 237-239 Nietschmann, Bernard Q. 52-63

Oates, John F. 476-491 Pace, Michael L. 126-127 Pearson, David L. 116-117 Pianka, Eric R. 352-371 Pohle, John F. 276-295 Pradhan, Shreedhar P. 498-499 Rasmussen, D. Tab 119-120 Reed, Nathaniel Prvor 131-132 Robichaux, Hubert R. 412-427 Rooth, Claes 243-244 Rosenberg, Michael 496-498 Rowe, Gary L. 328–337 Sakai, Ann K. 388–391 Sanford, Ward E. 328-337 Schneeberger, Jon 1-48 [special issue] Shear, William A. 378 Shroder, John F. Jr. 499-500 Sinopoli, Carla M. 237-239 Solow, Robert M. 3-6 Stanley, Daniel Jean 22-51, 264-275 Steadman, David W. 166-179 Stern, Charles R. 239-240 Strommen, Norton D. 10-21 Taylor, Carl E. 374-377 Taylor-Ide, Daniel 374-377 Van Beek, Gus W. 6-8 Vazquez, Rick J. 387-388 Vigil, James Diego 247-248 Vitt, Laurie J. 76-95, 378-379 Warne, Andrew G. 22-51 Weinstein, James 122 Weller, Stephen G. 388-391 Whittow, G. Causey 96-107 Wilkinson, T. J. 196-207 Williams, Richard S. Jr. 1-48 [special issue] Winemiller, Kirk O. 308-327

Subject

Africa see particular country agriculture

Forbes, Donald L. 242-243

Ford, Robert E. 460-475

crop yield and climate 10–21 human–environment interactions, Burkina Faso 460–475

albatross, thermoregulation 104–107 Amazonia

Pisqui River, Peru 234–237 tiger beetles as indicator species 116–117 anthropology

Burkina Faso, desertification 460–475 Ethiopia, development interventions 296–307

India, Raika camel pastoralists 117–119 ants, group transport 220–231 archaeology Egypt, Nile delta (Pharaonic) 264–275 Greece, Polystylon burials (Byzantine) 119 Guatemala, Río Azul painted tombs 412–427 India, Vijayanagara (AD 1350 to 1565) 237–239 Israel, Gilat sanctuary (Chalcolithic) 372–374 Israel, Shiqmim subterranean settlements (Chalcolithic) 122–123

Aztec ceramics markets 428-445

Mesoamerican states 391–411 Mesopotamia, off-site (Bronze Age) 196–207

Montana Mill Iron site and paleoindian sequence, Clovis/Folsom 494-496

Olmec 148-165 Polynesia, Mangaia Island 166-179 Thailand, trade 180-195 Turkey, Hallan Çemi (Neolithic) 497 Turkey, Mesopotamian land use (Bronze Age) 196-207 Zäire, phytoarchaeology and copper mining 338-351 Archaeopteryx and powered flight 387-388 Australia, fire ecology 352-371 authors' guidelines 128 Aztec, market systems 428-445 Belize see Central America biodiversity fire ecology, Australia 352-371 indicator species in Amazonia 116-117

books received 250-251, 505-507



books reviewed

Anthropogenic Climatic Change 125–126 Archaeology: Theories, Methods and Practice 248–250

Deserts as Dumps? The Disposal of Hazardous Materials in Arid Ecosystems 383–384

Energy for Rural Development 505 The Euphrates River and the Southeast Anatolia Development Project 380–381 Imagined Country: Society, Culture, and Environment 124–125

Indian Country, L.A.: Maintaining Ethnic Community in Complex Society 247–248 The Power of Place: Sacred Ground in Natural and Human Environments 124–125

Resident Peoples and National Parks: Social Dilemmas and Strategies in International Conservation 381–383 Sarapiqui Chronicle: A Naturalist in Costa Rica 245–247 The Uses of Ecology—Lake Washington and Beyond 126–127

Borana, development interventions 296-307

botany

copper-accumulating flora, Zaire 338–351

Cynanchinae growth forms in Madagascar 108–115 dioecy evolution 388–391

Brazil, development 141-142 burials

Greece, Polystylon (Byzantine) 119 Guatemala, Río Azul, painted tombs 412–427

Israel, Gilat sanctuary (Chalcolithic) 372–374

Italy, Greek colonists at Metaponto (600 to 250 BC) 446–459

Thailand (6000 to 1500 BC) 180–195 Burkina Faso, human–environment

interactions 460-475

Burma see Myanmar camels, pastoralists of India 117–119 carbon dioxide 12–13

centipedes, mimicked 93, 378–379 Central America

Indians vs forest 232–234, map supplement [spring], 501–504 see also particular country; Mesoamerica ceramics, Aztec market systems 428–445 cheetahs, female reproduction 64–75 Chile, tephrochronology to date human occupancy, Tierra del Fuego 239–240

change and trends 241–244 crop yield, and 10–21 Nile delta 36–37 progress, and 135–137

Clovis, Mill Iron site, Montana 494–496 cobalt flowers 338–351

computers, Pennsylvania Gazette on CD-ROM 262-263

conservation

mservation
building materials 6–8
Central America, Indians vs forest
232–234, map supplement [spring]
Costa Rica–Nicaragua, SIAPAZ 52–63
Myanmar, forests vs elephants 133–135
Nigeria, Sclater's guenon 476–491
Peruvian Amazon 234–237
Tanzania, cheetahs 73–75
Divergence, freshwater fishes, 308–327

convergence, freshwater fishes 308–327 Copán, political evolution 407–408 copper flowers, Zäire 338–351

Costa Rica
Poás volcano, toxic waters 328–337
SIAPAZ protected area 52–63
see also Central America

crop yield, and climate 10–21 Cynanchinae, Madagascar 108–115 deforestation

Nigeria, Sclater's guenon 476–491 Polynesia, ancient 166–179 see also forests

desertification, Burkina Faso 460–475 development

ethics, and 138–147 Ethiopia, Borana 296–307 dioecy evolution, 388–391

economics

Aztec market systems 428–445 North America, grain elevators 208–219 sustainability and 3–6

ecopolitics 60-63

Egypt

Nile delta archaeology (Pharaonic) 264–275

Nile delta evolution 22–51

elephants vs forest, Myanmar 133–135 El Salvador see Central America environment

Third World and 259–260 see also climate; conservation

ethics

development and 138-147 researchers in the Third World 391

Ethiopia

development interventions 296–307 mammals, hominids (Pliocene) 119–120 ethnic identity and world order 260–261 fire ecology, Australia 352–371 fishes, divergence and convergence

Folsom, Mill Iron site, Montana 494–496 foraging, group transport in ants 220–231

Central America, Indians vs 232-234,



map supplement [spring] Myanmar, elephants vs 133–135 Fuji, petrology 121–122 general circulation models 10–21 geomorphology

Himalaya 499–500 Nile delta evolution 22–51 Gilat sanctuary, Israel (Chalcolithic)

372–374

Goshen Cultural Complex, Paleoindian cultural sequence (Clovis/Folsom)
494–496

grain elevators, North America 208–219 grants awarded, 1991 252–256 gravel beach development, Ireland 242–243 Greece, Polystylon (Byzantine), osteology

greenhouse gases 10-21 Guatemala

Río Azul, painted tombs (Maya) 412–427 see also Central America; Mesoamerica guenon, Sclater's 476–491 Guinea-Bissau, development 142 Hakone, petrology 121–122

Hallan Çemi, Turkey (Neolithic) 496–498 hatching, thermoregulation 96–107 health survey, Tibetan villagers 374–377 Himalaya

landforms 499–500 see also Mount Everest

Honduras see Central America housing, and resource conservation 6–8 inbreeding, and resource allocation 388–391

India

Vijayanagara (AD 1350–1565) archaeology 237–239 Raika camel pastoralists 117–119 Indians vs forest, Central America 232–234, map supplement [spring]

232–234, map supplement [spring] Ireland, gravel beach development 242–243 Israel

Gilat sanctuary (Chalcolithic) 372–274 Shiqmim subterranean settlements (Chalcolithic) 122–123 Italy, Greek colonists (600 to 250 BC)

428–445 Japan, Fuji and Hakone volcanoes

121-122 Jason system 8-9

Khok Phanom Di archaeology 190–194 Kuwait, oil-well fires 1–48 [special issue]



land use

Burkina Faso 460–475 Mesopotamia (Bronze Age) 196–207 North America, grain elevators and 208–219

Lebanon, development 140–141 lizards

fire ecology, Australia 362–367 mimicry 76–95

Madagascar, milkweed growth forms 108–115

Manama Island, seabird thermoregulation 96–104

Mangaia Island, ancient environmental degradation 166–179

Maya

political evolution 406–408 Río Azul, Guatemala, painted tombs 412–427

Mesoamerica

Aztec, market systems 428–445 Olmec 148–165 states, evolution 391–411 see also Central America; particular country;

Mesopotamia, land use (Bronze Age, Chalcolithic) 196–207 see also Turkey

Mexico, development 143–144 Midway Islands, seabird thermoregulation 104–107

milkweed family, Madagascar 108–115 Mill Iron site, Montana (Clovis/Folsom) 494–496

mimicry of millipedes and centipedes by vertebrates 76–95, 378–379

Monte Albán, political evolution 399–404 mosquitoes, Nepal 498–4990

Mount Everest

health survey of villagers 374–377 see also Himalaya

mud brick, and resource conservation 6-8 multiculturalism and world order 260-261 Myanmar, forests and elephants 133-135 Namibia, hominoid (Miocene) 492-494 National Park Service, mission 131-132 Nepal, mosquitoes 498-499

Nicaragua

SIAPAZ protected area 52–63 see also Central America Nigeria, Sclater's guenon 476–491 Nile delta, Egypt 22–51 archaeology (Pharaonic) 264–275 noddies, thermoregulation 96–104 Nong Nor archaeology 185–190 Oaxaca, political evolution 399–404 Oil-well fires, Kuwait 1–48 [special issue] Olmec prehistory 148–165 Otavipithecus, Namibia 492–494 Paleoindian cultural sequence (Clovis/Folsom) 494–496

paleontology
Archaeopteryx and powered flight 387–388
hominoid (Miocene), Namibia 492–494
mammals and hominid (Pliocene),
Ethiopia 119–120

Panama see Central America
Pennsylvania Gazette, CD-ROM 262–263
Persian Gulf War, environmental consequences 1–48, [special issue]
Poás volcano, toxic waters 328–337

Poland, development 144–145
Polynesia, Mangaia archaeology 166–179
population, resources and 135–137
population dynamics

Greece (Byzantine) 119 Italy, Greek colonists at Metaponto (600 to 250 Bc) 428–445 precipitation 20–21 primates, Sclater's guenon 476–491

primates, Sciater's guenon 476–491
Raika, camel pastoralists, India 117–119
Red Sea, tilefish monogamy 276–295
remote sensing, Kuwaiti oil-well fires
1–48 [special issue]

resources

allocation, and inbreeding 388–391 conservation, and housing 6–8 population and 135–137 see also conservation

reviewers, 1 July 1991 to 1 July 1992 508 Río Azul, Guatemala, painted tombs (Maya) 412–427

Rio San Juan, Costa Rica and Nicaragua 52–63

Sahel, Yatenga, Burkina Faso, humanenvironment interactions 460–475

sand dunes, Nile delta 22–51 sea-floor mapping 8–9 seabirds, thermoregulation 96–107 Serengeti National Park, Tanzania, cheetah reproduction 64–75 shearwaters, thermoregulation 96–1

shearwaters, thermoregulation 96–104 Shipibo, Peruvian Amazon 234–237 Shiqmim, subterranean settlements

(Chalcolithic) 122–123
snakes, mimicry 76–95
South America see particular country
Sri Lanka, development 142–143
sustainability, economist's perspective 3–6
Tanzania, cheetah reproduction 64–75
temperature patterns 12–20
Teotihuacan, political evolution 394–398
tephrochronology, human occupancy,
Tierra del Fuego 239–240

Tierra del Fuego 239–240 terns, thermoregulation 96–104 Thailand, prehistoric trade 180–195 thermoregulation, seabirds 96–107 Third World

environment and 259-260 US researchers 391



CTOR R. BOSWELL, ALL

Tibet, health survey 374–377
Tierra del Fuego, tephrochronology of human occupancy 239–240
tiger beetles, Amazonia 116–117
Tikal, political evolution 406–407
tilefish, monogamy 276–295
trade

Aztec ceramics 428–445 Thailand, prehistoric 180–195 see also economics

Tula, political evolution 398–399 Turkey

Hallan Çemi (Neolithic) 496–498 see also Mesopotamia

volcanoes

Chile, Tierra del Fuego 239–240 Costa Rica, Poás, toxic waters 328–337 Japan, Fuji and Hakone petrology 121–122

water, toxic, Poás volcano, Costa Rica 328–337

world order 260–261
Xochilcalco, political evolution 404–406
Zäire, copper flowers 338–351
Zapotec, political evolution 399–404
zoology

ants, group transport 220–231 cheetah reproduction 64–72 fish, divergence and convergence 308–327 mimicry of millipedes and centipedes 76–95, 378–379

mosquitoes, Nepal 498–499 Sclater's guenon, Nigeria 476–491 seabird thermoregulation 96–107 tiger beetle as indicator species, Amazonia 116–117

tilefish, monogamy 276–295

ERRATA

"Fire Ecology" by Eric Pianka (R&E 8[3]:352–371; 1992)

PAGE 352. The last line of the abstract was inadvertently dropped. The last sentence should read: "Several approaches to modeling fire succession are outlined."

PAGE 369. Equation 4, line 1 should read: "To solve for the stationary distribution of ages of patches ρ (a,s), set...."

THROUGHOUT. For: "L-shaped area" Read:

"L area."